

SPECIFICATION FOR SMT OSCILLATOR M-TRON P/N M2015S053

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY: 5.222400 MHz
2. FREQUENCY STABILITY OVER TEMPERATURE: ± 50 ppm (inclusive of calibration, temperature, voltage, load, and aging)
3. OPERATING TEMPERATURE RANGE: 0°C to $+70^{\circ}\text{C}$
4. OPERATING VOLTAGE: $5.0\text{ V} \pm 10\%$
5. OPERATING CURRENT: 30 mA max.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. SYMMETRY: 45/55% ref. to $\frac{1}{2}V_{\text{DD}}$ and 1.4 V
8. OUTPUT LOAD: 15 pF HCMOS/10 TTL max.
9. RISE/FALL TIME: 5 nS max. ref. 20% and 80% - 0.5 V to 2.5 V
10. OUTPUT LOGIC LEVELS: $V_{\text{OL}} = 0.5\text{ V}$ max. $V_{\text{OH}} = V_{\text{DD}} - 0.5\text{ V}$ min.
11. STARTUP TIME: 5 ms. typical
12. JITTER (Cycle-to-Cycle): 20 pS RMS max.
13. TRISTATE FUNCTION (Pin 1): Logic level "1" or floating: normal output
Logic level "0": output disables to high impedance

II. ENVIRONMENTAL/MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C.
2. VIBRATION: MIL-STD-202, Methods 201 & 204.
3. HERMETICITY: $1\text{X } 10^{-8}$ atm cc/sec min.
4. SOLDERABILITY: Per EIAJ-STD-002
5. REFLOW SOLDER CONDITIONS: $+240^{\circ}\text{C}$ for 10 secs. max.
6. STORAGE TEMPERATURE: -55°C to $+125^{\circ}\text{C}$
7. PACKAGE: 4- J- Lead ceramic package with gold flash leads, RoHS 5 compliant (M7S type)

DIMENSIONS

